

FIG. 1

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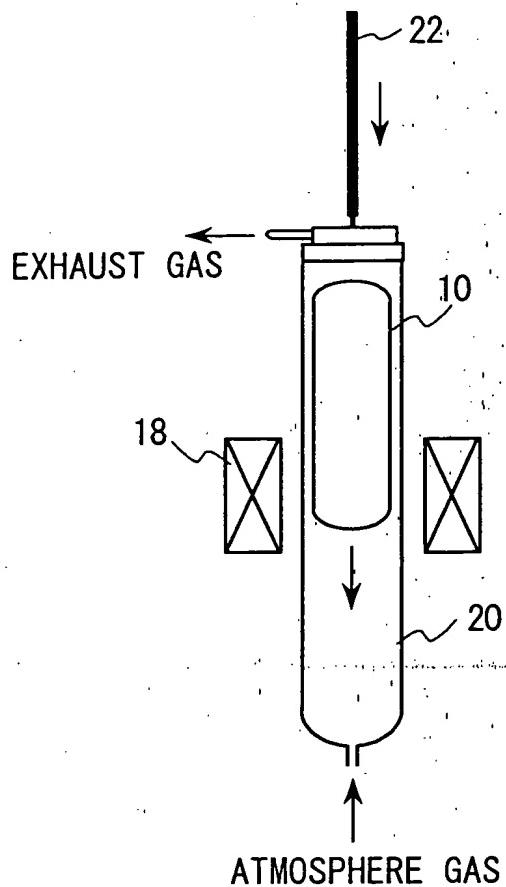


FIG. 2

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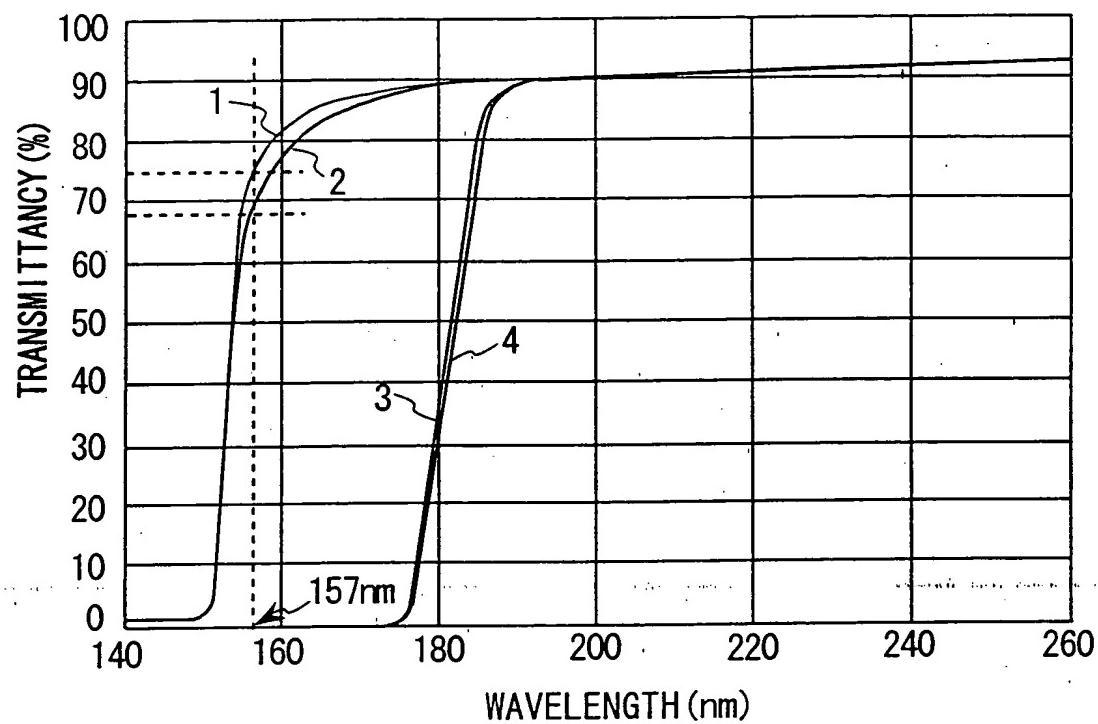


FIG. 3

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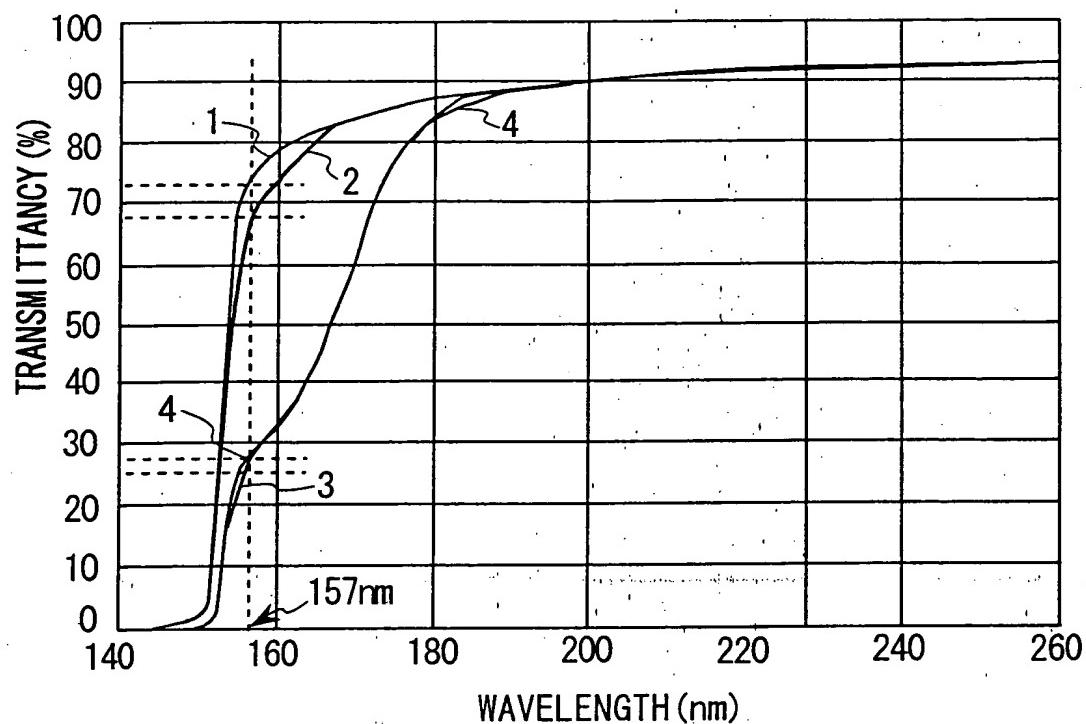


FIG. 4

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	CONDITIONS			REMARKS
	FIRST PROCESS		SECOND PROCESS	
EXAMPLE 1	ATMOSPHERE TEMPERATURE PASSING SPEED	He 3 l/min, H ₂ 0.5 l/min 1000°C 3mm/min	SiF ₄ 1.6 l/min 1380°C 3mm/min	PRE-HEATING PROCESS WITH H ₂
COMPARATIVE EXAMPLE 1	ATMOSPHERE TEMPERATURE PASSING SPEED	NONE	SiF ₄ 1.6 l/min 1380°C 3mm/min	NO PRE-HEATING
COMPARATIVE EXAMPLE 2	ATMOSPHERE TEMPERATURE PASSING SPEED	NONE	SiF ₄ 1.6 l/min, H ₂ 0.5 l/min 1380°C 3mm/min	NO PRE-HEATING; SINTERING WITH H ₂
COMPARATIVE EXAMPLE 3	ATMOSPHERE TEMPERATURE PASSING SPEED	He 3 l/min, Cl ₂ 0.3 l/min 1000°C 3mm/min	SiF ₄ 1.6 l/min, H ₂ 0.5 l/min 1380°C 3mm/min	DEHYDRATION WITH Cl ₂ ; SINTERING WITH H ₂

FIG. 5

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		CONDITIONS		REMARKS
		FIRST PROCESS	SECOND PROCESS	
EXAMPLE 2	ATMOSPHERE TEMPERATURE PASSING SPEED	He 3 l/min, O ₂ 1 l/min 1000°C 3mm/min	SiF ₄ 1.6 l/min 1380°C 3mm/min	PRE-HEATING PROCESS WITH O ₂
COMPARATIVE EXAMPLE 4	ATMOSPHERE TEMPERATURE PASSING SPEED	None	SiF ₄ 1.6 l/min 1380°C 3mm/min	NO PRE-HEATING
COMPARATIVE EXAMPLE 5	ATMOSPHERE TEMPERATURE PASSING SPEED	None	SiF ₄ 1.6 l/min, O ₂ 1 l/min 1380°C 3mm/min	NO PRE-HEATING; SINTERING WITH O ₂
COMPARATIVE EXAMPLE 6	ATMOSPHERE TEMPERATURE PASSING SPEED	He 3 l/min, Cl ₂ 0.3 l/min 1000°C 3mm/min	SiF ₄ 1.6 l/min, O ₂ 1 l/min 1380°C 3mm/min	DEHYDRATION WITH Cl ₂ ; SINTERING WITH O ₂

FIG. 6

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